Access DB# 71938

SEARCH REQUEST FORM

Scientific and Technical Information Center

Sci	entine and recurred	ii iiioi mation Center		
Poquestar's Full Name:	= parthy	Examiner #: 792	Date: -7/=-7/	- 2
Requester's Full Name: Art Unit: 123 Phone N	umber 30 5 - 4-6	Serial Number:	67763289	
Mail Box and Bldg/Room Location:	Resi	ults Format Preferred (circ	ele): PAPER DISK E	-MAIL
If m r than one search is submi	tted, please prioritiz	ze searches in order of	need.	*****
Please provide a detailed statement of the s Include the elected species or structures, ke utility of the invention. Define any terms to known. Please attach a copy of the cover sl	eywords, synonyms, acror hat may have a special mo heet, pertinent claims, and	nyms, and registry numbers, a eaning. Give examples or rele l abstract.	nd combine with the conce evant citations, authors, etc	ept or e, if
Title of Invention:	and mative	rul contro	sition	• •
Inventors (please provide full names): _	Dotas B	ourke; 5°	then sce	1tay
Earliest Priority Filing Date:			-	
For Sequence Searches Only Please includ appropriate serial number.	e all pertinent information	(parent, child, divisional, or issu	ed patent numbers) along w	ith the
Means &	zearch el	12 x 12 1 - 18		
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		-		
Point of Contact: Thomas G. Larson, Ph.D. 703-308-7309 CM1, Rm. 6 B 01				
********	*****	****	********	*
STAFF USE ONLY Point of Contact:	Type of Search	Vendors and cos	st where applicable	
Searcher: Thomas G. Larson, Ph.D. 703-308-7309	NA Sequence (#)	*		
Searcher Phone #:CM1, Rm. 6 B 01				_
Searcher Location:	Structure (#)			
Date Searcher Picked Up:	Bibliographic	Lexis/Nexis		
Date Completed: \$\frac{7}{7}	Litigation	Sequence Systems		_
Searcher Prep & Review Time:	Patent Family	WWW/Internet A/L N		- 51f
	,			

PTO-1590 (8-01)

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=> FILE MEDLINE
FILE 'MEDLINE' ENTERED AT 18:53:57 ON 07 AUG 2002
 FILE LAST UPDATED: 7 AUG 2002 (20020807/UP). FILE COVERS 1958 TO DATE.
On June 9, 2002, MEDLINE was reloaded. See HELP RLOAD for details.
MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the
MeSH 2002 vocabulary. Enter HELP THESAURUS for details.
 THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE
 SUBSTANCE IDENTIFICATION.
                SEA FILE MEDLINE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
                CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/
                CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT
                                                BUFFERS+PFT/CT
T.3
          13269 SEA FILE=MEDLINE ABB=ON PLU=ON
                                                 ANTIVIRAL AGENTS+NT, PFT/CT
                                        PLU=ON
         155342 SEA FILE=MEDLINE ABB=ON
1.5
                                         PLU=ON
                                                L1 AND L3 AND L5
              9 SEA FILE=MEDLINE ABB=ON
L6
                                         PLU=ON
                                                L6 AND HUMAN/CT AND PC/CT
              1 SEA FILE=MEDLINE ABB=ON
L8
=> D OUE L9
L2
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62511 SEA FILE=MEDLINE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/ CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT 257963 SEA FILE=MEDLINE ABB=ON PLU=ON ANTI-INFECTIVE AGENTS, index term for gluces gize LOCAL+NT, PFT/CT PLU=ON BUFFERS+PFT/CT L3 13269 SEA FILE=MEDLINE ABB=ON 6 SEA FILE=MEDLINE ABB=ON PLU=ON L1 AND L2 AND L3

O SEA FILE=MEDLINE ABB=ON PLU=ON L4 AND PC/CT T.9

=> D QUE L13 62511 SEA FILE=MEDLINE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/ CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT 13269 SEA FILE=MEDLINE ABB=ON PLU=ON BUFFERS+PFT/CT L3 56150 SEA FILE=MEDLINE ABB=ON PLU=ON SURFACE-ACTIVE AGENTS+NT, PFT/C L10 PLU=ON L1 AND L3 AND L10 9 SEA FILE=MEDLINE ABB=ON L11PLU=ON L11 AND HUMAN/CT AND PC/CT L13 1 SEA FILE=MEDLINE ABB=ON

=> D OUE L17

L4

62511 SEA FILE=MEDLINE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/ CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT

13269 SEA FILE=MEDLINE ABB=ON PLU=ON BUFFERS+PFT/CT L.3

PLU=ON SPERMATOCIDAL AGENTS+NT, PFT/CT L16 4054 SEA FILE=MEDLINE ABB=ON

1 SEA FILE=MEDLINE ABB=ON PLU=ON L1 AND L3 AND L16 L17

=> D OUE L20

62511 SEA FILE=MEDLINE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/ CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT 155342 SEA FILE=MEDLINE ABB=ON PLU=ON ANTIVIRAL AGENTS+NT, PFT/CT L5

J

CM1, Rm. 6 B

L10	56150	SEA FILE=MEDLINE ABB=ON PLU=ON SURFACE-ACTIVE AGENTS+NT, PFT/C
L14	16779	SEA FILE=MEDLINE ABB=ON PLU=ON NONOXYNOL+PFT/CT OR OCTOXYNOL+PFT/CT OR ACYCLOVIR+NT, PFT/CT OR BENZALKONIUM+PFT/CT OR BENZALKONIUM COMPOUNDS+NT, PFT/CT OR APROTININ+PFT/CT
L16	4054	SEA FILE=MEDLINE ABB=ON PLU=ON SPERMATOCIDAL AGENTS+NT, PFT/CT
L18	920	SEA FILE=MEDLINE ABB=ON PLU=ON ACRYLIC ACID POLYMER OR ACRYLATE POLYMER OR POLY ACRYLIC OR POLYACRYLIC OR POLY ACRYLATE OR POLYACRYLATE
L19	6	SEA FILE=MEDLINE ABB=ON PLU=ON L1 AND (L5 OR L10 OR L14 OR L16) AND L18
L20	0	SEA FILE=MEDLINE ABB=ON PLU=ON L19 AND PC/CT
=> D OUE I	.22	
L1		SEA FILE=MEDLINE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT
L5 1	155342	SEA FILE=MEDLINE ABB=ON PLU=ON ANTIVIRAL AGENTS+NT, PFT/CT
L10		SEA FILE=MEDLINE ABB=ON PLU=ON SURFACE-ACTIVE AGENTS+NT, PFT/C
L14	16779	SEA FILE=MEDLINE ABB=ON PLU=ON NONOXYNOL+PFT/CT OR OCTOXYNOL+PFT/CT OR ACYCLOVIR+NT,PFT/CT OR BENZALKONIUM+PFT/CT OR BENZALKONIUM COMPOUNDS+NT,PFT/CT OR APROTININ+PFT/CT
L16	4054	SEA FILE=MEDLINE ABB=ON PLU=ON SPERMATOCIDAL AGENTS+NT, PFT/CT
L21 L22		SEA FILE=MEDLINE ABB=ON PLU=ON CONDOMS+PFT/CT SEA FILE=MEDLINE ABB=ON PLU=ON L1 AND (L5 OR L10 OR L14 OR L16) AND L21

=> FILE EMBASE

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FILE COVERS 1974 TO 25 Jul 2002 (20020725/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> D QUE L28

L23	18666	SEA FILE=EMBASE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
		CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/
		CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT
L24	754154	SEA FILE=EMBASE ABB=ON PLU=ON ANTIINFECTIVE AGENT+NT, PFT/CT
L25	2356	SEA FILE=EMBASE ABB=ON PLU=ON L23 AND L24
L26	5756	SEA FILE=EMBASE ABB=ON PLU=ON BUFFER+PFT/CT
L27	7	SEA FILE=EMBASE ABB=ON PLU=ON L25 AND L26
L28	0	SEA FILE=EMBASE ABB=ON PLU=ON L27 AND PC/CT

=> D QUE L32

L23 18666 SEA FILE=EMBASE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/

```
CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT
         5756 SEA FILE=EMBASE ABB=ON PLU=ON BUFFER+PFT/CT
185288 SEA FILE=EMBASE ABB=ON PLU=ON ANTIVIRUS AGENT+NT,PFT/CT
3 SEA FILE=EMBASE ABB=ON PLU=ON L23 AND L26 AND L30
L26
L30
L31
              O SEA FILE=EMBASE ABB=ON PLU=ON L31 AND PC/CT
L32
=> D QUE L37
          18666 SEA FILE=EMBASE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
L23
                CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/
                CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT
         754154 SEA FILE=EMBASE ABB=ON PLU=ON ANTIINFECTIVE AGENT+NT, PFT/CT
L24
           5756 SEA FILE=EMBASE ABB=ON PLU=ON BUFFER+PFT/CT
L26
          55326 SEA FILE=EMBASE ABB=ON PLU=ON SURFACTANT+NT, PFT/CT
L33
            7 SEA FILE=EMBASE ABB=ON PLU=ON L23 AND L26 AND L33
L34
              3 SEA FILE=EMBASE ABB=ON PLU=ON L34 AND L24
L37
=> D'QUE L41
          18666 SEA FILE=EMBASE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
L23
                CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/
                CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT
           5756 SEA FILE=EMBASE ABB=ON PLU=ON BUFFER+PFT/CT
L26
            622 SEA FILE=EMBASE ABB=ON, PLU=ON NONOXINOL 9+PFT/CT OR OCTOXINOL
L40
                 9+PFT/CT
              1 SEA FILE=EMBASE ABB=ON PLU=ON L23 AND L26 AND L40
L41
=> D QUE L43
          18666 SEA FILE=EMBASE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
                CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/
                CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT
           5756 SEA FILE=EMBASE ABB=ON PLU=ON BUFFER+PFT/CT
L26
           6416 SEA FILE=EMBASE ABB=ON PLU=ON SPERMICIDAL AGENT+NT, PFT/CT
L42
              2 SEA FILE=EMBASE ABB=ON PLU=ON L23 AND L26 AND L42
L43
=> D QUE L50
          18666 SEA FILE=EMBASE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
                CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/
                CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT
         754154 SEA FILE=EMBASE ABB=ON PLU=ON ANTIINFECTIVE AGENT+NT, PFT/CT
L24
         185288 SEA FILE=EMBASE ABB=ON PLU=ON ANTIVIRUS AGENT+NT, PFT/CT
L30
          55326 SEA FILE=EMBASE ABB=ON PLU=ON SURFACTANT+NT, PFT/CT
L33
          20039 SEA FILE=EMBASE ABB=ON PLU=ON NONOXYNOL+PFT/CT OR OCTOXYNOL+P
L38
                FT/CT OR ACYCLOVIR+NT, PFT/CT OR BENZALKONIUM+PFT/CT OR
                BENZALKONIUM COMPOUNDS+NT, PFT/CT OR APROTININ+PFT/CT
            622 SEA FILE=EMBASE ABB=ON PLU=ON NONOXINOL 9+PFT/CT OR OCTOXINOL
L40
                 9+PFT/CT
           1382 SEA FILE=EMBASE ABB=ON PLU=ON POLYACRYLIC ACID+NT, PFT/CT
L44
             19 SEA FILE=EMBASE ABB=ON PLU=ON L23 AND (L24 OR L30 OR L33 OR
L45
                L38 OR L40) AND L44
              8 SEA FILE=EMBASE ABB=ON PLU=ON L45 AND HUMAN/CT
L46
          18367 SEA FILE=EMBASE ABB=ON PLU=ON DRUG DELIVERY SYSTEM/CT
L49
L50
              4 SEA FILE=EMBASE ABB=ON PLU=ON L46 AND L49
=> D OUE L51
          18666 SEA FILE=EMBASE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
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CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/

	•	CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT
L24	754154	SEA FILE=EMBASE ABB=ON PLU=ON ANTIINFECTIVE AGENT+NT, PFT/CT
L30	185288	SEA FILE=EMBASE ABB=ON PLU=ON ANTIVIRUS AGENT+NT,PFT/CT
L33	55326	SEA FILE=EMBASE ABB=ON PLU=ON SURFACTANT+NT,PFT/CT
L38	20039	SEA FILE=EMBASE ABB=ON PLU=ON NONOXYNOL+PFT/CT OR OCTOXYNOL+F
		FT/CT OR ACYCLOVIR+NT, PFT/CT OR BENZALKONIUM+PFT/CT OR
		BENZALKONIUM COMPOUNDS+NT, PFT/CT OR APROTININ+PFT/CT
L40	622	SEA FILE=EMBASE ABB=ON PLU=ON NONOXINOL 9+PFT/CT OR OCTOXINOL 9+PFT/CT
L44	1382	SEA FILE=EMBASE ABB=ON PLU=ON POLYACRYLIC ACID+NT,PFT/CT
L45	19	SEA FILE=EMBASE ABB=ON PLU=ON L23 AND (L24 OR L30 OR L33 OR
		L38 OR L40) AND L44
L47	5	SEA FILE=EMBASE ABB=ON PLU=ON L45 AND PD/CT
L49	18367	SEA FILE=EMBASE ABB=ON PLU=ON DRUG DELIVERY SYSTEM/CT
L51	2	SEA FILE=EMBASE ABB=ON PLU=ON L47 AND L49
		\cdot
=> D	QUE L54	·
L23	18666	SEA FILE=EMBASE ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
		CHONDROITIN SULFATES+PFT/CT OR PENTOSAN SULFURIC POLYESTER+PFT/
	• .	CT OR GLYCOSAMINOGLYCANS+PFT/CT OR HYALURONIC ACID+PFT/CT
L24	754154	SEA FILE=EMBASE ABB=ON PLU=ON ANTIINFECTIVE AGENT+NT, PFT/CT
L30	185288	SEA FILE=EMBASE ABB=ON PLU=ON ANTIVIRUS AGENT+NT, PFT/CT
L33		SEA FILE=EMBASE ABB=ON PLU=ON SURFACTANT+NT, PFT/CT
L38	20039	SEA FILE=EMBASE ABB=ON PLU=ON NONOXYNOL+PFT/CT OR OCTOXYNOL+F
		FT/CT OR ACYCLOVIR+NT, PFT/CT OR BENZALKONIUM+PFT/CT OR
		BENZALKONIUM COMPOUNDS+NT, PFT/CT OR APROTININ+PFT/CT
L40	622	SEA FILE=EMBASE ABB=ON PLU=ON NONOXINOL 9+PFT/CT OR OCTOXINOL
	Α.	9+PFT/CT
L44		SEA FILE=EMBASE ABB=ON PLU=ON POLYACRYLIC ACID+NT, PFT/CT
L53	3678	SEA FILE=EMBASE ABB=ON PLU=ON CONDOM+PFT/CT
L54	. 0	SEA FILE=EMBASE ABB=ON PLU=ON L23 AND (L24 OR L30 OR L33 OR
		L38 OR L40 OR L44) AND L53

=> S L37 OR L41 OR L43 OR L50 OR L51 L114 9 L37 OR L41 OR L43 OR L50 OR L51

=> FILE HCAPLUS

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FILE COVERS 1907 - 7 Aug 2002 VOL 137 ISS 6 FILE LAST UPDATED: 6 Aug 2002 (20020806/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> D QUE	T.66	
155		SEA FILE=HCAPLUS ABB=ON PLU=ON CHONDROITIN SULFATE/CT OR
1 33	0120	CHONDROITIN 4-SULFATE/CT OR CHONDROITIN 6-SULFATE/CT
L56	17915	SEA FILE=HCAPLUS ABB=ON PLU=ON GLYCOSAMINOGLYCANS+NT, PFT/CT
L57		SEA FILE=HCAPLUS ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
		"PENTOSANS (L) SULFATES"+NT, PFT/CT OR HYALURONIC ACID+PFT/CT
L58	28645	SEA FILE=HCAPLUS ABB=ON PLU=ON (L55 OR L56 OR L57)
L60	162793	SEA FILE=HCAPLUS ABB=ON PLU=ON ANTIMICROBIAL AGENTS+NT, PFT/CT
L63	11014	SEA FILE=HCAPLUS ABB=ON PLU=ON SEXUALLY TRANSMITTED DISEASES+
T. C.F.	411	NT,PFT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON L63 (L) (PREVENT? OR PROPHYLA?
L65	411	OR DEFEN? OR SAFE?)
L66	5	SEA FILE=HCAPLUS ABB=ON PLU=ON L58 AND L60 AND L65
200		
=> D QUE	L67	
L55	6420	SEA FILE=HCAPLUS ABB=ON PLU=ON CHONDROITIN SULFATE/CT OR
		CHONDROITIN 4-SULFATE/CT OR CHONDROITIN 6-SULFATE/CT
L56		SEA FILE=HCAPLUS ABB=ON PLU=ON GLYCOSAMINOGLYCANS+NT, PFT/CT
L57	10749	SEA FILE=HCAPLUS ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
T.F.O.	20645	"PENTOSANS (L) SULFATES"+NT, PFT/CT OR HYALURONIC ACID+PFT/CT SEA FILE=HCAPLUS ABB=ON PLU=ON (L55 OR L56 OR L57)
L58 L59		SEA FILE=HCAPLUS ABB=ON PLU=ON (L55 OR L56 OR L57) SEA FILE=HCAPLUS ABB=ON PLU=ON BUFFERS+PFT/CT
L60		SEA FILE=HCAPLUS ABB=ON PLU=ON ANTIMICROBIAL AGENTS+NT, PFT/CT
цоо	102/93	SEA FINE-NEAFHOD ADD-ON FHO-ON ANTIMICKODIAN AGENTOFNI, III/CI
L61	10	SEA FILE=HCAPLUS ABB=ON PLU=ON L58 AND L59 AND L60
L63		SEA FILE=HCAPLUS ABB=ON PLU=ON SEXUALLY TRANSMITTED DISEASES+
		NT, PFT/CT
L67	1	SEA FILE=HCAPLUS ABB=ON PLU=ON L61 AND L63
D 01117	T 70	
=> D QUE L55		SEA FILE=HCAPLUS ABB=ON PLU=ON CHONDROITIN SULFATE/CT OR
гээ	6420	CHONDROITIN 4-SULFATE/CT OR CHONDROITIN 6-SULFATE/CT
L56	17915	SEA FILE=HCAPLUS ABB=ON PLU=ON GLYCOSAMINOGLYCANS+NT, PFT/CT
L57		SEA FILE=HCAPLUS ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
		"PENTOSANS (L) SULFATES"+NT, PFT/CT OR HYALURONIC ACID+PFT/CT
L58	28645	SEA FILE=HCAPLUS ABB=ON PLU=ON (L55 OR L56 OR L57)
L68	242	SEA FILE=HCAPLUS ABB=ON PLU=ON "CONTRACEPTIVES (L) CONDOMS"+P
		FT/CT
L69	125310	SEA FILE=HCAPLUS ABB=ON PLU=ON DETERGENTS+NT, PFT/CT OR
		SURFACTANTS+PFT/CT
L70		SEA FILE=HCAPLUS ABB=ON PLU=ON L58 AND L69
L72	0	SEA FILE=HCAPLUS ABB=ON PLU=ON L70 AND L68
=> D OUE	1.74	
L55		SEA FILE=HCAPLUS ABB=ON PLU=ON CHONDROITIN SULFATE/CT OR
	3.20	CHONDROITIN 4-SULFATE/CT OR CHONDROITIN 6-SULFATE/CT
L56	17915	SEA FILE=HCAPLUS ABB=ON PLU=ON GLYCOSAMINOGLYCANS+NT, PFT/CT
L57		SEA FILE=HCAPLUS ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
		"PENTOSANS (L) SULFATES"+NT, PFT/CT OR HYALURONIC ACID+PFT/CT
L58	28645	SEA FILE=HCAPLUS ABB=ON PLU=ON (L55 OR L56 OR L57)

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7360 SEA FILE=HCAPLUS ABB=ON PLU=ON BUFFERS+PFT/CT
L59
         11014 SEA FILE=HCAPLUS ABB=ON PLU=ON SEXUALLY TRANSMITTED DISEASES+
L63
               NT, PFT/CT
        125310 SEA FILE=HCAPLUS ABB=ON PLU=ON
                                                DETERGENTS+NT, PFT/CT OR
L69
               SURFACTANTS+PFT/CT
           553 SEA FILE=HCAPLUS ABB=ON PLU=ON L58 AND L69
L70
            30 SEA FILE=HCAPLUS ABB=ON PLU=ON L70 AND L59
L73
             O SEA FILE=HCAPLUS ABB=ON PLU=ON L73 AND L63
L74
=> D QUE L78
          6420 SEA FILE=HCAPLUS ABB=ON PLU=ON CHONDROITIN SULFATE/CT OR
L55
               CHONDROITIN 4-SULFATE/CT OR CHONDROITIN 6-SULFATE/CT
         17915 SEA FILE=HCAPLUS ABB=ON PLU=ON GLYCOSAMINOGLYCANS+NT, PFT/CT
L56
         10749 SEA FILE=HCAPLUS ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
L57
                "PENTOSANS (L) SULFATES"+NT, PFT/CT OR HYALURONIC ACID+PFT/CT
         28645 SEA FILE=HCAPLUS ABB=ON PLU=ON (L55 OR L56 OR L57)
L58
L63
         11014 SEA FILE=HCAPLUS ABB=ON
                                       PLU=ON SEXUALLY TRANSMITTED DISEASES+
               NT, PFT/CT
           456 SEA FILE=HCAPLUS ABB=ON
                                        PLU=ON
                                                 "CONTRACEPTIVES (L) SPERMICIDA
L76
               L"+PFT/CT
            11 SEA FILE=HCAPLUS ABB=ON PLU=ON
                                                L58 AND L76
L77
L78
             2 SEA FILE=HCAPLUS ABB=ON PLU=ON
                                               L77 AND L63
=> D QUE L79
          6420 SEA FILE=HCAPLUS ABB=ON PLU=ON CHONDROITIN SULFATE/CT OR
L55
                CHONDROITIN 4-SULFATE/CT OR CHONDROITIN 6-SULFATE/CT
         17915 SEA FILE=HCAPLUS ABB=ON PLU=ON GLYCOSAMINOGLYCANS+NT, PFT/CT
L56
         10749 SEA FILE=HCAPLUS ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
L57
                "PENTOSANS (L) SULFATES"+NT, PFT/CT OR HYALURONIC ACID+PFT/CT
         28645 SEA FILE=HCAPLUS ABB=ON PLU=ON (L55 OR L56 OR L57)
L58
           242 SEA FILE=HCAPLUS ABB=ON PLU=ON
                                                "CONTRACEPTIVES (L) CONDOMS"+P
L68
               FT/CT
           456 SEA FILE=HCAPLUS ABB=ON PLU=ON
                                                "CONTRACEPTIVES (L) SPERMICIDA
L76
               L"+PFT/CT
            11 SEA FILE=HCAPLUS ABB=ON PLU=ON L58 AND L76
L77
            O SEA FILE=HCAPLUS ABB=ON PLU=ON L77 AND L68
L79
=> D QUE L83
          6420 SEA FILE=HCAPLUS ABB=ON PLU=ON CHONDROITIN SULFATE/CT OR
L55
                CHONDROITIN 4-SULFATE/CT OR CHONDROITIN 6-SULFATE/CT
          17915 SEA FILE=HCAPLUS ABB=ON PLU=ON GLYCOSAMINOGLYCANS+NT, PFT/CT
L56
          10749 SEA FILE=HCAPLUS ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
L57
                "PENTOSANS (L) SULFATES"+NT, PFT/CT OR HYALURONIC ACID+PFT/CT
         28645 SEA FILE=HCAPLUS ABB=ON PLU=ON (L55 OR L56 OR L57)
L58
          7360 SEA FILE=HCAPLUS ABB=ON PLU=ON BUFFERS+PFT/CT
L59
          11014 SEA FILE=HCAPLUS ABB=ON PLU=ON SEXUALLY TRANSMITTED DISEASES+
L63
               NT, PFT/CT
            242 SEA FILE=HCAPLUS ABB=ON PLU=ON
                                                "CONTRACEPTIVES (L) CONDOMS"+P
L68
                FT/CT
            456 SEA FILE=HCAPLUS ABB=ON PLU=ON
                                                "CONTRACEPTIVES (L) SPERMICIDA
L76
                L"+PFT/CT
          16521 SEA FILE=HCAPLUS ABB=ON PLU=ON 26027-38-3#/RN OR 9002-93-1#/R
L80
               N OR 59277-89-3#/RN OR 8001-54-5#/RN OR 9087-70-1#/RN
            131 SEA FILE=HCAPLUS ABB=ON PLU=ON L58 AND L80
L81
L82
             6 SEA FILE=HCAPLUS ABB=ON PLU=ON L81 AND L59
             1 SEA FILE=HCAPLUS ABB=ON PLU=ON L82 AND (L63 OR L68 OR L76)
L83
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=> D QUE L89
          6420 SEA FILE=HCAPLUS ABB=ON PLU=ON CHONDROITIN SULFATE/CT OR
               CHONDROITIN 4-SULFATE/CT OR CHONDROITIN 6-SULFATE/CT
          17915 SEA FILE=HCAPLUS ABB=ON PLU=ON GLYCOSAMINOGLYCANS+NT, PFT/CT
L56
          10749 SEA FILE=HCAPLUS ABB=ON PLU=ON DEXTRAN SULFATE+PFT/CT OR
L57
                "PENTOSANS (L) SULFATES"+NT, PFT/CT OR HYALURONIC ACID+PFT/CT
          28645 SEA FILE=HCAPLUS ABB=ON PLU=ON (L55 OR L56 OR L57)
L58
         11014 SEA FILE=HCAPLUS ABB=ON PLU=ON SEXUALLY TRANSMITTED DISEASES+
L63
               NT, PFT/CT
            242 SEA FILE=HCAPLUS ABB=ON PLU=ON
                                                "CONTRACEPTIVES (L) CONDOMS"+P
L68
                                                "CONTRACEPTIVES (L) SPERMICIDA
           456 SEA FILE=HCAPLUS ABB=ON PLU=ON
L76
               L"+PFT/CT
         16521 SEA FILE=HCAPLUS ABB=ON PLU=ON 26027-38-3#/RN OR 9002-93-1#/R
L80
               N OR 59277-89-3#/RN OR 8001-54-5#/RN OR 9087-70-1#/RN
         12676 SEA FILE=HCAPLUS ABB=ON PLU=ON "POLY (ACRYLIC ACID)"+PFT/CT
L84
               OR POLYACRYLATE+PFT/CT
             5 SEA FILE=HCAPLUS ABB=ON PLU=ON L58 AND L80 AND L84
L88
             1 SEA FILE=HCAPLUS ABB=ON PLU=ON L88 AND (L63 OR L68 OR L76)
L89
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=> S L66 OR L67 OR L78 OR L83 OR L89 L115 6 L66 OR L67 OR L78 OR L83 OR L89

=> FILE WPIDS

FILE 'WPIDS' ENTERED AT 18:59:41 ON 07 AUG 2002 COPYRIGHT (C) 2002 THOMSON DERWENT

FILE LAST UPDATED: 02 AUG 2002 <20020802/UP>
MOST RECENT DERWENT UPDATE 200249 <200249/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

- >>> The BATCH option for structure searches has been enabled in WPINDEX/WPIDS and WPIX >>>
- >>> PATENT IMAGES AVAILABLE FOR PRINT AND DISPLAY >>>
- >>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES,
 SEE http://www.derwent.com/dwpi/updates/dwpicov/index.html <<<
- >>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
 PLEASE VISIT:
 http://www.stn-international.de/training_center/patents/stn_guide.pdf <<<</pre>
- >>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER GUIDES, PLEASE VISIT:

http://www.derwent.com/userguides/dwpi guide.html <<<

=> D QUE L102

- L90 532 SEA FILE-WPIDS ABB-ON PLU-ON (DEXTRAN OR CHONDROITIN OR PENTOSAN) (3A) (?SULF?)
- L91 4344 SEA FILE=WPIDS ABB=ON PLU=ON GLUCOSAMINE OR GLUCOSAMINOGLYCAN OR HYALURON?
- L92 4643 SEA FILE=WPIDS ABB=ON PLU=ON L90 OR L91
- L93 27953 SEA FILE=WPIDS ABB=ON PLU=ON MICROCID? OR ANTIINFECT? OR ANTI INFECT? OR ANTIVIRAL OR ANTI VIRAL OR ANTI MICROBIAL OR ANTIMICROBIAL
- L94 233 SEA FILE=WPIDS ABB=ON PLU=ON L92 AND L93
- L95 198 SEA FILE=WPIDS ABB=ON PLU=ON L94 AND (BUFFER? OR ACID? OR

		PH)
L96	26404	SEA FILE=WPIDS ABB=ON PLU=ON SEX? OR STD OR PROPHYLA? OR
270	20101	CONDOM OR PENIS OR VAGIN?
L97	22	SEA FILE=WPIDS ABB=ON PLU=ON L95 AND L96
L100		SEA FILE=WPIDS ABB=ON PLU=ON DETERGENT OR SURFACT? OR
птоо	1201//	SURFACE ACTIVE
T 1 0 0	_	•
L102	6	SEA FILE=WPIDS ABB=ON PLU=ON L97 AND L100
=> D QUE		
L90	532	SEA FILE=WPIDS ABB=ON PLU=ON (DEXTRAN OR CHONDROITIN OR
		PENTOSAN) (3A) (?SULF?)
L91	4344	SEA FILE=WPIDS ABB=ON PLU=ON GLUCOSAMINE OR GLUCOSAMINOGLYCAN
		OR GLYCOSAMINOGLYCAN OR HYALURON?
L92	4643	SEA FILE=WPIDS ABB=ON PLU=ON L90 OR L91
L100	120177	SEA FILE=WPIDS ABB=ON PLU=ON DETERGENT OR SURFACT? OR
-	•	SURFACE ACTIVE
L103	851	SEA FILE=WPIDS ABB=ON PLU=ON NONOXYNOL OR NONOXINOL OR
		OCTOXYNOL OR OCTOXINOL OR ACYCLOVIR OR BENALKONIUM OR APROTININ
		
T.104	29	SEA FILE=WPIDS ABB=ON PLU=ON L92 AND L103
		SEA FILE=WPIDS ABB=ON PLU=ON L104 AND L100
птоэ		DEA TIME-WIDD ADD-ON THO-ON HIGH AND HIGH
. D. OHE	T 1 1 0	
=> D QUE		SEA FILE-WPIDS ABB-ON PLU-ON (DEXTRAN OR CHONDROITIN OR
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		PENTOSAN) (3A) (?SULF?)
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L92		SEA FILE=WPIDS ABB=ON PLU=ON L90 OR L91
L93	27953	SEA FILE=WPIDS ABB=ON PLU=ON MICROCID? OR ANTIINFECT? OR
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		CONDOM OR PENIS OR VAGIN?
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1100	30110	OR POLY ACRYLIC ACID OR POLYACRYLIC ACID OR (ACRYLIC ACID (3A)
		(POLYMER# OR HOMOPOLYMER# OR HOMO POLYMER#))
T 1 0 0	10	SEA FILE=WPIDS ABB=ON PLU=ON L94 AND L106
L108		
L109		SEA FILE-WPIDS ABB-ON PLU-ON L108 AND L96
L110	T	SEA FILE=WPIDS ABB=ON PLU=ON L109 AND L98
=> D QUE		
L90	532	SEA FILE=WPIDS ABB=ON PLU=ON (DEXTRAN OR CHONDROITIN OR
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L91	4344	SEA FILE=WPIDS ABB=ON PLU=ON GLUCOSAMINE OR GLUCOSAMINOGLYCAN
		OR GLYCOSAMINOGLYCAN OR HYALURON?
L92	4643	SEA FILE=WPIDS ABB=ON PLU=ON L90 OR L91
L93	27953	SEA FILE=WPIDS ABB=ON PLU=ON MICROCID? OR ANTIINFECT? OR
		ANTI INFECT? OR ANTIVIRAL OR ANTI VIRAL OR ANTI MICROBIAL OR
		ANTIMICROBIAL
L94	233	SEA FILE=WPIDS ABB=ON PLU=ON L92 AND L93
L95		SEA FILE=WPIDS ABB=ON PLU=ON L94 AND (BUFFER? OR ACID? OR
	* - 0	· ·
		PH)
T.111	437	PH) SEA FILE-WOIDS ARREON PLUEON SPERMATOCIDS OF SPERMACIDS OR
L111	437	PH) SEA FILE=WPIDS ABB=ON PLU=ON SPERMATOCID? OR SPERMACID? OR SPERMICID?

2 SEA FILE=WPIDS ABB=ON PLU=ON L95 AND L111 L112

=> S L102 OR L105 OR L110 OR L112

9 L102 OR L105 OR L110 OR L112

=> DUP REM L113 L114 L115 L116

FILE 'MEDLINE' ENTERED AT 19:01:37 ON 07 AUG 2002

FILE 'EMBASE' ENTERED AT 19:01:37 ON 07 AUG 2002

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FILE 'HCAPLUS' ENTERED AT 19:01:37 ON 07 AUG 2002

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FILE 'WPIDS' ENTERED AT 19:01:37 ON 07 AUG 2002

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PROCESSING COMPLETED FOR L113

PROCESSING COMPLETED FOR L114

PROCESSING COMPLETED FOR L115

PROCESSING COMPLETED FOR L116

24 DUP REM L113 L114 L115 L116 (1 DUPLICATE REMOVED) L117

=> D IBIB ABS 1-24

L117 ANSWER 1 OF 24 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2002:450341 HCAPLUS

DOCUMENT NUMBER:

137:15765

TITLE:

Use of Iron and Manganese complexes for preventing and

treating HIV-mediated central nervous system damage

INVENTOR(S):

Salvemini, Daniela

PATENT ASSIGNEE(S):

Metaphore Pharmaceuticals, Inc, USA

SOURCE:

U.S. Pat. Appl. Publ., 21 pp. CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

----- 20020613

_____ US 2001-951855 20010913

US 2002072512 PRIORITY APPLN. INFO.:

A1

US 2000-254405P P 20001208

OTHER SOURCE(S):

MARPAT 137:15765

The invention relates to methods of preventing and/or treating HIV-mediated central nervous system damage. The method comprises administering therapeutic amts. of non-proteinaceous catalysts for the dismutation of superoxide to a subject either alone or in combination with a HIV anti-viral agent. The compds. of the invention are particularly suitable for treating and/or preventing AIDS Dementia Complex.

L117 ANSWER 2 OF 24 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER:

2002-361781 [39] WPIDS

DOC. NO. CPI:

C2002-102302

TITLE:

Microparticles for controlling an immune and autoimmune

responses by regulating an the immune system and delivering bioactive substances, useful for treating

diabetes.

DERWENT CLASS:

A96 B04 D16

INVENTOR(S):

BOT, A; DELLAMARY, L; SMITH, D J; WOODS, C M

PATENT ASSIGNEE(S):

(ALLI-N) ALLIANCE PHARM CORP

COUNTRY COUNT:

96

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2002009674 A2 20020207 (200239)* EN 78

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU

SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2001080934 A 20020213 (200239)

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 20020096	74 A2	WO 2001-US24038	20010730
AU 20010809	34 A	AU 2001-80934	20010730

FILING DETAILS:

PATENT NO	KIND	PATENT NO
20010809	34 A Based on	WO 200209674

PRIORITY APPLN. INFO: US 2000-221544P 20000728

AN 2002-361781 [39] WPIDS

AB WO 200209674 A UPAB: 20020621

NOVELTY - Microparticle compositions (A) for controlling an immune response/autoimmune disorder by down regulating a pathogenic arm of the immune system and/or up regulating the suppressor arm of the immune system, and (B) delivering a bioactive substance where it is desired to limit the immune response to the bioactive substance, are new.

DETAILED DESCRIPTION - A microparticle composition (A) for controlling an immune response/autoimmune disorder by down regulating a pathogenic arm of the immune system, or up regulating the suppressor arm of the immune system, or simultaneously down regulating the pathogenic arm and up regulating the suppressor arm of the immune system comprising:

- (1) a surfactant or mixture of surfactants comprising approximately 1-80% of the weight of the total microparticle composition;
- (2) at least one excipient selected from the group consisting of carbohydrates, polyols, salts, proteins and synthetic polymers; and
 - (3) at least one antigen.

A microparticle (B) composition for delivering a bioactive substance where it is desired to limit the immune response to the bioactive substance, comprising:

- (1) a water soluble **surfactant** selected from the group consisting of: phosphatides, non-ionic **surfactants**, anionic **surfactants**, cationic **surfactants**, proteins, amino acids and oligoamino acids;
- (2) a water soluble excipient comprising a weight ratio of 1-90% of the total weight of the composition (the water soluble excipients is selected from lactose, mannitol, mannose, sorbitol, galactitol, sucrose, trehalose, raffinose, maltose, glucose, saponins, osmotic agents such as

sodium chloride, potassium chloride, calcium chloride, magnesium chloride, zinc chloride, buffers such as PBS, acetate, citrate, TRIS and amino acids such as glycine and alanine), human, egg or bovine albumin, chollagen, oligopeptides, oligoleucine, oligoalanine, gelatin, glycoproteins, PLGA's, polylactides, polyglycolides, PVA's, PVP's, polyacrylics, carbomers, polyanhydrides, polyphosphoethers, polyurethanes, polyesters and polyphosphazenes; and

- (3) a bioactive substance for inducing an immune response. INDEPENDENT CLAIMS are also included for the following:
- (1) a method (I) of treating a patient suffering from, or preventing the development of Type 1 diabetes, by administration of the microparticles (A);
- (2) a method (II) of enhancing the Th2 response of an individual suffering from an autoimmune disorder comprising administration of the microparticles (A);
- (3) a method (III) of enhancing the IL-4 production of an individual suffering from an autoimmune disorder comprising administration of a therapeutically effective amount of the microparticles (A);
- (4) a method (IV) of tolerizing pathogenic T-cells in an individual suffering from autoimmune diabetes comprising administration of the microparticles (A); and
- (5) a method (V) of preventing the onset of Type 1 diabetes by administration of the microparticles (A).

ACTIVITY - Immunomodulatory; immunostimulant; immunosuppressive; antidiabetic.

Retentive (10% lactose, 25% hIgG and 64% DPPC+1% DiC16PE-Texas Red) and non-retentive particles (1% tyloxapol, 10% lactose, 25% hIgG and 63% DPPC+Ca2++1% DiC1 6PE-Texas Red) (SDLMs constructed according to procedure described in the specification, using excipients mentioned in this example) were administered to anesthetized Sprague-Dawley rats, using an Insufflator device inserted into the trachea. Prior to administration, the device was loaded with 60 microns 1 of 20mg/ml formulation suspended in perflubron. Out of 60 microns 1, 35 microns 1 were expelled by the device as micron-size aerosols. One hour after administration, the rats (n=6 / group) were sacrificed and the bronchoalveolar macrophages harvested, washed and analyzed using a FACS Calibur. The percentage of Texas Red positive cells was measured using cells from naive rats as reference. The results are expressed as % Texas Red+ cells (means plus or minus SEM).

In parallel, the lung circulation was perfused via the right ventricle. The lungs were harvested, homogenized in 10 microns g/ml of aprotinin (10ml final volume) and the concentration of hIgG measured by capture ELISA. Wells coated with 1:500 mouse anti-human k and lambda chains antibodies were used, blocked subsequently with 30% SeaBlock. After the centrifugation of tissue homogenates (5 minutes at 10000 RPM), various dilutions of supernatants were incubated for 2 hours at room temperature. Following extensive washing, the wells were incubated for 1 hour at room temperature with 1:1000 goat anti-human IgG conjugated with alkaline phosphatase. Subsequently, the assay was developed using pNPP substrate according to manufacturer's instructions. The OD was read at 405nm and the concentration of hIgG calculated by interpolation using a standard curve constructed with hlgG.

The results were expressed as total amount of lgG in the lung interstitial tissue (means plus or minus SEM). The results show that co-formulation of various excipients was associated with differential clearance of microparticles by phagocytes. Since this clearance is Fc gamma R-mediated the results demonstrated that co-aggregation of IgG with lipid excipients is greatly limited by addition of tyloxapol and modification of excipients.

MECHANISM OF ACTION - Vaccine. USE - (A) May be used for:

- (1) treating (I) a patient suffering from, or preventing the development of Type 1 diabetes;
- (2) enhancing (II) the Th2 response of an individual suffering from an autoimmune disorder;
- (3) enhancing (III) the IL-4 production of an individual suffering from an autoimmune disorder comprising administration of a therapeutically effective amount of the microparticles (A);
- (4) tolerizing (IV) pathogenic T-cells in an individual suffering from autoimmune diabetes comprising administration of the microparticles (A); and
- (5) preventing (V) the onset of Type 1 diabetes by administration of the microparticles (A).
- (B) May be used for delivering a bioactive substance where it is desired to limit the immune response to the bioactive substance (claimed). Dwg.0/31

L117 ANSWER 3 OF 24 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER:

2002-216998 [27] WPIDS

CROSS REFERENCE:

2002-216996 [14]; 2002-217001 [14]

DOC. NO. CPI:

C2002-066341

TITLE:

Hydrogel film used for improving wound healing and delivering pharmaceuticals, comprises polymer including

polysaccharide modified by hydrazide or glycosaminoglycan compounds with dialdehyde

crosslinker.

DERWENT CLASS:

A11 A96 B07 C07 D22

INVENTOR(S):

KIRKER, K R; LUO, Y; PRESTWICH, G D

PATENT ASSIGNEE(S):

(UTAH) UNIV UTAH RES FOUND

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA	PG
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96

WO 2002006373 A1 20020124 (200227)* EN 90

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

AU 2001078943 A 20020130 (200236)

APPLICATION DETAILS:

PATENT NO K	IND	API	PLICATION	DATE
WO 2002006373	A1	WO	2001-US22556	20010717
AU 2001078943	A	ΑU	2001-78943	20010717

FILING DETAILS:

PATENT NO	KIND			PAT	ENT NO
			-		
AII 200107894	13 A '	Based	on	WO	200206373

PRIORITY APPLN. INFO: US 2000-218725P 20000717

AN 2002-216998 [27] WPIDS

CR 2002-216996 [14]; 2002-217001 [14]

AB WO 200206373 A UPAB: 20020429

NOVELTY - Hydrogel film comprises a polymer having at least one unit (I)

including a polysaccharide group modified by hydrazide or glycosaminoglycan compounds (II) with dialdehyde crosslinker.

DETAILED DESCRIPTION - Hydrogel film comprises a polymer having at least one unit of formula (I) including a polysaccharide group modified by hydrazide or **glycosaminoglycan** compounds of formula (Ax-By-Ax); (II) with a dialdehyde crosslinker.

X, Y = a polysaccharide;

Z, R1-R8 = H, polysaccharyl, polyether group, or hydrocarbyl or heterohydrocarbyl (both optionally substituted);

A = glycosaminoglycan having at least one hydrazide group;

B = a dialdehyde crosslinker;

x = 1-100;

y = 1-10, and

j = 10-100000000.

INDEPENDENT CLAIMS are included for the following:

- (1) production of the hydrogel film comprising the polymer having at least one unit (I) which comprises reacting a modified polysaccharide having at least one hydrazide group with a polyaldehyde;
- (2) a pharmaceutical composition comprising a pharmaceutical compound and the hydrogel film comprising the polymer having at least one unit (I);
 - (3) production of the pharmaceutical composition which comprises:
 - (i) admixing the pharmaceutical compound with the hydrogel film, or
- (ii) admixing the pharmaceutical compound with a modified polysaccharide having at least one hydrazide group, and reacting the modified polysaccharide with a polyaldehyde, and
- (4) a method for purifying a modified polysaccharide having at least one hydrazide group which comprises dialyzing the modified polysaccharide in the presence of a salt.

ACTIVITY - Vulnerary; Antiinflammatory.

MECHANISM OF ACTION - None given in the source material.

USE - Used for wound and burn healing, tissue regeneration and drug and small molecule delivery. The film is used for treating periodontal disease.

ADVANTAGE - The film may be placed directly in or on any biological system without purification. The film provides a surface over which cells can grow and is malleable and can be manipulated to conform to contours of tissue defects.

Dwg.0/12

L117 ANSWER 4 OF 24 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER:

2002-268856 [31] WPIDS

DOC. NO. CPI:

C2002-079688

TITLE:

Surfactant-free oil-in-water wax dispersion
useful in topical, anal, vaginal, ophthalmic,

nasal otic application comprises a hydrophobic phase

having wax mixed with an aqueous phase.

DERWENT CLASS:

A96 B05 D21

INVENTOR(S):

CECCOLI, J D; COLEMAN, T; CRAWFORD, T K; ROSS, M;

WILMOTT, J M

PATENT ASSIGNEE(S):

(COLL-N) COLLABORATIVE TECHNOLOGIES INC

COUNTRY COUNT:

95

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2002004004 A1 20020117 (200231)* EN 37

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ

LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW AU 2001075888 A 20020121 (200234)

APPLICATION DETAILS:

PATENT NO KIND	APPLICATION	DATE
WO 2002004004 A1	WO 2001-US21746	20010711
AU 2001075888 A	AU 2001-75888	20010711

FILING DETAILS:

PATENT NO KIND PATENT NO ______ AU 2001075888 A Based on WO 200204004

PRIORITY APPLN. INFO: US 2000-217617P 20000711

2002-268856 [31] WPIDS

AΒ WO 200204004 A UPAB: 20020516

NOVELTY - A surfactant-free oil-in-water wax dispersion (A)

comprises a hydrophobic phase having wax mixed with an aqueous phase.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) preparation of (A) involving mixing the wax with at least one hydrophobic phase, and then mixing the hydrophobic phase with the aqueous phase under conditions of high shear/high pressure; and

(2) a composition (B) comprising (A) and a base composition comprising a hydrophilic rheological modifying agent and an aqueous phase.

USE - For topical, anal, vaginal, ophthalmic, nasal or otic application (claimed).

ADVANTAGE - The dispersion comprises wax or hydrophobic semi-solid that is water resistant and provides aesthetically pleasing tactile properties. The dispersion is high pressure, high shear and is stable for a commercially relevant period of time e.g. 180 - 720 days when stored at about room temperature in commercial packages. Dwg.0/0

L117 ANSWER 5 OF 24 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

2001:676575 HCAPLUS

DOCUMENT NUMBER:

135:231705

TITLE:

Compositions and methods for trapping and inactivating

pathogenic microbes and spermatozoa

INVENTOR(S):

Garg, Sanjay; Zaneveld, Lourens Jan Dirk; Anderson,

Robert Anthony, Jr.; Waller, Donald Paul

PATENT ASSIGNEE(S):

Rush-Presbyterian-St. Luke's Medical Center, USA

SOURCE: PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT I	. O <i>v</i>	KIND	DATE		A)	PPLI	CATI	ON NO	ο.	DATE			
						-							
WO 2001	066084	A2	20010913		W	20	01-U	\$7042	2	2001	0306		
WO 2001	066084	A3	20020228										-
W:	AE. AG.	AL. AM	. AT. AU.	A7.	BA.	BB.	BG.	BR.	BY.	BZ.	CA.	CH.	CN.

CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,

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LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
             RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
             VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                        US 2000-187574P P 20000307
PRIORITY APPLN. INFO.:
    Antimicrobial and contraceptive compns. and methods which prevent and/or
    reduce the risk of transmission of sexually transmitted diseases (STDs)
     through sexual activity as well as prevent and/or reduce the risk of
    pregnancy are provided. The compns. contain (1) a matrix-forming agent,
     such as alginic acid, chitosan, gellan gum, and poloxamer, (2) a
    bioadhesive agent selected from the group consisting of xanthan gum,
    hydroxypropyl cellulose, hydroxypropyl Me cellulose, sodium CM-cellulose,
     chitosan, polycarbophil, and carbopol, (3) a buffering agent, such as
     lactic acid, citric acid, potassium acid tartrate, benzoic acid, alginic
     acid, sorbic acid, fumaric acid, ascorbic acid, stearic acid, oleic acid,
     (4) optionally a humectant selected from glycerol, polyethylene glycols,
    propylene glycols, sorbitol, and triacetin, (5) optionally a preservative,
     and (6) water. The compn. is suitable for application within the vagina.
     The compn. (a) forms a semisolid matrix on contact with ejaculate (thereby
     trapping ejaculated microbes and spermatozoa), (b) causes hardening of
     cervical mucus (thereby decreasing the probability of sperm entry), (c)
     forms a bioadhesive layer over vaginal surfaces (thereby preventing or
     reducing the risk of contact of STD-causing microbes with the vaginal
     surfaces), (d) maintains an acidic vaginal pH of < 5 in the presence of
     semen ejaculated from the male, and (e) does not significantly impair the
     natural microbiol. balance within the vagina. The antimicrobial and
     contraceptive compns. may also contain addnl. antimicrobial and/or
     contraceptive agents (e.g., nonoxynol-9, octoxynol-9, benzalkonium
     chloride, phosphorylated hesperidins, sulfonated hesperidins, polystyrene
     sulfonates, substituted benzenesulfonic acid formaldehyde copolymers,
     H2SO4-modified mandelic acids, povidone iodine, itraconazole,
     ketoconazole, metronidazole, clotrimazole, fluconazole, teraconazole,
     miconazole, tinidazole, iconazole, chloramphenicol, nystatin,
     cyclopiroxolamine, and the like). For example, gels were prepd. contg.
     alginic acid 4.25%, xanthan gum 3.0%, glycerol 8.0%, lactic acid 2.0%,
     citric acid 1.0%, potassium bitartrate 0.4%, benzoic acid 0.2%,
     nonoxynol-9 0-10%, and water up to 100%. The pH of the formulations was
     adjusted to a pH .apprx.3.5-3.6 with NaOH. Gels showed good trapping
     property and good stability for prolonged periods of time even with
     nonoxynol-9 levels of up to 5%. Gels themselves, without a contraceptive
     agent, were effective spermicides, and gels with and without nonoxynol-9
     were highly effective in preventing chlamydia infection in mice, more
     effective than com. products (Gynol II, KY Plus, Advantages-S, and
     Conceptrol). The trapping gels were also formulated into vaginal tablets.
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L117 ANSWER 6 OF 24 WPIDS (C) 2002 THOMSON DERWENT ACCESSION NUMBER: 2001-616056 [71] WPIDS
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DOC. NO. CPI:

C2001-184321

TITLE:

New pharmaceutical composition useful in inhalation therapy comprises an electrospun fiber of a polymeric carrier integrated with an active agent.

DERWENT CLASS: A96 B05 B07 C07 F01

INVENTOR(S):
PATENT ASSIGNEE(S):

BALDONI, J M; IGNATIOUS, F (SMIK) SMITHKLINE BEECHAM CORP

COUNTRY COUNT: 80

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2001054667 A1 20010802 (200171)* EN 37

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ

NL OA PT SD SE SL SZ TR TZ UG ZW

W: AE AL AU BA BB BG BR BZ CA CN CZ DZ EE GE GH GM HR HU ID IL IN IS

JP KP KR LC LK LR LT LV MA MG MK MN MX MZ NO NZ PL RO SG SI SK SL

TR TT TZ UA US UZ VN YU ZA

AU 2001031134 A 20010807 (200174)

APPLICATION DETAILS:

PATENT NO K	IND	API	PLICATION	DATE
WO 2001054667 AU 2001031134			2001 002000	20010125

FILING DETAILS:

PATENT NO	KIND	PATENT NO
ΔΙΙ 20010311	34 A Based on	WO 200154667

PRIORITY APPLN. INFO: US 2000-178682P 20000128

AN 2001-616056 [71] WPIDS

AB WO 200154667 A UPAB: 20011203

NOVELTY - A pharmaceutical composition comprises an electrospun fiber of a polymeric carrier integrated with an active agent.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for preparing the pharmaceutical composition involving

- (1) making a solution of the active agent and the polymeric carrier with a solvent and
 - (2) electrospinning the solution of step a) into a fiber.

USE - For inhalation therapy and for dispersion in an aqueous solution (claimed).

ADVANTAGE - The composition enhances the bioavailability of a drug, preferably a poorly water soluble drug. The rapid dissolving dosage form of the composition disintegrates in a rapid manner, over a short time period, in the mouth or other suitable body cavity. In the oral context, small particulate matter is produced which gets ingested without the need of water.

Dwg.0/3

L117 ANSWER 7 OF 24 MEDLINE

ACCESSION NUMBER: 2000230899 MEDLINE

DOCUMENT NUMBER: 20230899 PubMed ID: 10770130

TITLE: Microbicides: ideas flourish, money to follow?.

AUTHOR: Stephenson J

SOURCE: JAMA, (2000 Apr 12) 283 (14) 1811-2.

Journal code: 7501160. ISSN: 0098-7484.

PUB. COUNTRY: United States
DOCUMENT TYPE: News Announcement

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals; AIDS

ENTRY MONTH: 200004

ENTRY DATE: Entered STN: 20000505

Last Updated on STN: 20000505 Entered Medline: 20000427

L117 ANSWER 8 OF 24 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER: 2000-205553 [18] WPIDS

DOC. NO. NON-CPI:

N2000-152972

DOC. NO. CPI:

C2000-063354

TITLE:

Medicinal products, e.g. catheters or prostheses, contain two agents of different lipophilicity to provide retarded

release of drugs, e.g. antimicrobial agents.

DERWENT CLASS:

A96 B05 B07 D22 P34

INVENTOR(S):
PATENT ASSIGNEE(S):

PULVERER, G; SCHIERHOLZ, J M; SCHIERHOLZ, J (SCHI-I) SCHIERHOLZ J M; (SCHI-I) SCHIERHOLZ J

COUNTRY COUNT:

27

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

WO 2000007574 A1 20000217 (200018)* GE 47

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: JP US

EP 985413 A1 20000315 (200018) GE

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT

RO SE SI

EP 1100479 A1 20010523 (200130) GE

R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

APPLICATION DETAILS:

PATENT NO K	IND	AP	PLICATION	DATE
WO 2000007574 EP 985413	A1	EP	1999-EP5685 1998-114781	19990805 19980806 19990805
EP 1100479	A1		1999-940159 1999-EP5685	19990805

FILING DETAILS:

PATENT NO	KIND	PATENT NO
ED 1100479	Al Based on	WO 200007574

PRIORITY APPLN. INFO: US 1998-95562P 19980806; DE 1998-19835546 19980806; EP 1998-114781 19980806

AN 2000-205553 [18] WPIDS

AB WO 200007574 A UPAB: 20000412

NOVELTY - Medicinal products contain two components (A) and (B) having different lipophilicities and water solubilities, at least one of which is a drug.

DETAILED DESCRIPTION - A non-degradable medicinal product contains two components (A) and (B), at least one of which is a drug. (A) is more lipophilic than (B), (A) has a solubility in water of 1-300 mu g/ml and (B) has a higher solubility than (A). (A) and (B) are each present in an effective amount, but at not more than 10 wt. % based on the carrier material. Excluded are combinations of chlorhexidine/silver sulfadiazine, triclosan-chlorhexidine, polyethylene glycol-polyurethane or combinations of clortrimazole, triclosan and optionally porous polyethylene.

INDEPENDENT CLAIMS are also included for the following:

- (i) the preparation of the products, by swelling, solvent casting, active agent lacquering, extrusion and/or injection molding of polymers (such as PUR, SIR or PET) and/or by active agent coating (optionally using a carrier, e.g. polylactide, polyorthoester, polyethylene glycol, other bioresorbable polymers or non-resorbable polymers) on metal endoprostheses; and
 - (ii) a method for controlling the release of (B) from a medicinal

G. KIISIMAII, 05/505/

product, by combining (B) with (A).

USE - The medicinal products are specifically contact lenses, catheters, vascular prostheses, endoprostheses, surgical antimicrobial agent carriers (e.g. collagen non-wovens), stents, 'blades', bone cement, metallic endoprostheses, CAPD catheters, wound coverings, sprayed polyurethane non-wovens or drainage lines (all claimed). They can provide retarded release of a wide range of drugs (e.g. antibiotics or other antimicrobial agents to control infections, sexual hormones for fertility control or cancer treatment, disinfectants, antineoplastic agents, analgesics, antiinflammatories, local anesthetics and/or antithrombotic agents). The drugs may be intracellularly enriched in bacteria, thrombocytes and/or other types of cells. One of (A) and (B) may also be a biologically inactive material (e.g. a surfactant) which improves biocompatibility.

ADVANTAGE - The rate of release of (B) is controlled by the presence of (A), to provide retarded release of (B) into the surrounding environment. Constant rate release of (B) over a prolonged period may be achieved.

Dwq.0/5

L117 ANSWER 9 OF 24 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER:

2000-256137 [22] WPIDS

DOC. NO. CPI:

C2000-078103

TITLE:

Solid formulation for improving bioavailability of poorly water-soluble drugs comprises the drug in an oil and/or

fatty acid dispersed in a water-soluble polyol matrix.

DERWENT CLASS:

A96 B05 B07

INVENTOR(S):

LEE, B J

PATENT ASSIGNEE(S):

(WONJ-N) WON JIN BIOPHARMA CO LTD

COUNTRY COUNT:

24

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA	PG
	-			

WO 2000000179 A1 20000106 (200022)* EN 67

RW: AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

W: AU CA CN JP US

AU 9946556 A 20000117 (200026) KR 2000006503 A 20000125 (200063)

APPLICATION DETAILS:

PATENT NO K	IND	AP	PLICATION	DATE
WO 200000179	A1	WO	1999-KR341	19990628
AU 9946556	A	ΑU	1999-46556	19990628
KR 2000006503	A	KR	1999-24437	19990626

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AII 9946556	A Based on	WO 20000179

PRIORITY APPLN. INFO: KR 1999-24437 19990626; KR 1998-24563 19980627

AN 2000-256137 [22] WPIDS

AB WO 200000179 A UPAB: 20000508

NOVELTY - A solid dispersed formulation for poorly water-soluble drugs is made by dispersing the drug in an oil and/or fatty acid and mixing the

dispersion with a water-soluble polyol matrix and drying the mixture. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for medicines

prepared using the novel solid.

USE - The composition is useful for enhancing the bioavailability of poorly water-soluble drugs.

ADVANTAGE - The novel composition provides improved solubility in the gastrointestinal tract giving a great increase in bioavailability. Formulation does not require the use of organic solvents.

Dwg.0/5

L117 ANSWER 10 OF 24 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER:

2000-681105 [67] WPIDS

DOC. NO. CPI:

C2000-207282

TITLE:

Compositions to deliver compounds into cells e.g. to treat rheumatoid arthritis, comprise organic halide, targeting ligand and nuclear localization sequence in

combination with compound and carrier.

DERWENT CLASS:

A96 B07 D16

INVENTOR(S):

MCCREERY, T; SADEWASSER, D A; UNGER, E C

PATENT ASSIGNEE(S):

(IMAR-N) IMARX PHARM CORP

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO KIND DATE WEEK LA PG

25

A2 20001025 (200067) * EN 78 EP 1046394

R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
			·
EP 1046394	A2	EP 2000-303249	20000418

PRIORITY APPLN. INFO: US 1999-294623 19990419

WPIDS 2000-681105 [67] AΝ

1046394 A UPAB: 20001223 AΒ

NOVELTY - Compositions for delivering compounds into cells comprise: an organic halide; a targeting ligand; and a nuclear localization sequence in combination with the compound to be delivered.

ACTIVITY - Immunoregulatory; anti-inflammatory; anti-arthritic. USE - The compositions are used to deliver compounds into cells (claimed), particularly for the treatment of autoimmune disorders and inflammatory conditions such as rheumatoid arthritis. They may also be used to deliver pharmaceuticals, drugs, diagnostic agents, synthetic organic molecules, peptides, proteins, vitamins, steroids, genetic materials and other bioactive agents e.g. mitotic inhibitors (vinca alkaloids), radiopharmaceuticals (radioactive iodine, phosphorus and cobalt isotopes), hormones (progestins, estrogens, anti-estrogens), anthelmintics, antimalarials, antituberculotics, biologicals (immune sera, antitoxins, antivenoms), rabies prophylactic products, bacterial vaccines, viral vaccines, aminoglycosides, respiratory products (xanthine derivatives, theophylline, aminophylline), thyroid therapeutics (iodine salts, antithyroid agents), cardiovascular products (chelating agents, mercurial diuretics, cardiac glycosides), glucagons, blood products (parenteral iron, hemin, hematoporphyrins and derivatives), targeting ligands (peptides, antibodies, antibody fragments), biological response modifiers (muramyl dipeptide, muramyl tripeptide, microbial cell wall

components, lymphokines - bacterial endotoxin e.g. lipopolysaccharide and macrophage activation factor), subunits of bacteria (Mycobacteria, Comebacteria), synthetic dipeptides (N-acetyl-muramyl-L-alanyl-Disoglutamine), antifungals (ketoconazole, nystatin, griseofulvin, flucytosine, miconazole, amphotericin B), toxins (ricin), immunosuppressants (cyclosporins), antibiotics (beta -lactam, sulfazecin), hormones (growth hormone, melanocyte-stimulating hormone, estradiol, beclomethasone dipropionate, betamethasone, betamethasone acetate, betamethasone sodium phosphate, betamethasone disodium phosphate, cortisone acetate, dexamethasone, dexamethasone acetate, dexamethasone sodium phosphate, flunisolide, hydrocortisone, hydrocortisone acetate, hydrocortisone cypionate, hydrocortisone sodium phosphate, hydrocortisone sodium succinate, methylprednisolone, methylprednisolone acetate, methylprednisolone sodium succinate, paramethasone acetate, prednisolone acetate, prednisolone sodium phosphate, prednisolone tebutate, prednisone, triamcinolone, triamcinolone acetonide, triamcinolone diacetate, triamcinolone hexacetonide, fluorocortisone acetate, oxytocin, vasopressin and their derivatives), vitamins (cyanocobalamin neionic acid), retinoids and their derivatives (retinal palmitate, alpha -tocopheryl), peptides and enzymes (manganese superoxide dismutase, alkaline phosphatases), anti-allergens (amelexanox), anticoagulants (phenprocoumon, heparin), tissue plasminogen activators, streptokinase and urokinase), circulatory drugs (propranolol), metabolic potentiators (glutathione), antibiotics (p-aminosalicylic acid, isoniazid, capreomycin sulfate, cycloserine, ethambutol hydrochloride, ethionamide, pyrazinamide, rifampicin, streptomycin sulfate dapsone, chloramphenicol, neomycin, ceflacor, cefadroxil, cephalexin, cephadrine erythromycin, clindamycin, lincomycin, amoxicillin, ampicillin, bacampicillin, carbenicillin, dicloxicillin, cyclacillin, picloxicillin, hetacillin, methicillin, nafcillin, oxacillin, penicillin (G and V), ticarcillin, rifampin, tetracycline), antivirals (acyclovir, ddI, foscarnet, zidovudine, ribavirin, vidarabine monohydrate), antianginals (diltiazem, nifedipine, verapamil, erythritol tetranitrate, isosorbide dinitrate, nitroglycerin (glyceryl trinitrate), pentaerythritol tetranitrate, anti-inflammatories (difluisal, ibuprofen, indomethacin, meclofenamate, mefenamic acid, naproxen, oxyphenbutazone, phenylbutazone, piroxicam, sulindac, tolmetin, aspirin, salicylates), antiprotozoans (chloraquine, hydroxychloraquine, metronidazole, quinine, meglumine antimonate), antirheumatics (penicillamine), narcotics (paregoric), opiates (codeine, heroin, methadone, morphine, opium), cardiac glycosides (deslanoside, digitoxin, digoxin, digitalin, digitalis), neuromuscular blockers (atracurium mesylate, gallamine triethiodide, hexafluorenium bromide, metrocurine iodide, pancurium bromide, succinylcholine chloride (suxamethionium chloride), tubocurarine chloride, vencuronium bromide), sedatives (amobarbital, amobarbital sodium, aprobarbital, butabarbital sodium, chloral hydrate, ethchlorvynol, ethinamate, flurazepam hydrochloride, glutethimide, methotrimeprazine hydrochloride, methyprylon, midazolam hydrochloride, paraldehyde, pentobarbital, pentobarbital sodium, secobarbital sodium, thiopental sodium), antineoplastics (methotrexate, fluorouracil, adriamycin, mitomycin, ansamitomycin, bleomycin, cysteine arabinoside, arabinosyl adenine, mercaptopolylysine, vincristine, busulfan, chlorambucil, azidothymidine, melphalan (e.g. PAM, L-PAM or phenylalanine mustard), mercaptopurine, mitotane, procarbazine hydrochloride, dactinomycin (actinomycin D), daunorubicin hydrochloride, dosorubicin hydrochloride, Taxol (RTM: paclitaxel), plicamycin (mithramycin), aminoglutethimide, estramustine phosphate sodium, flutamide, leuprolide acetate, megestrol acetate, tamoxifen citrate, testolactone, trilostane, amsacrine (m-AMSA), asparaginase, etoposide (VP-16), interferon alpha -2a, interferon alpha -2b, teniposide (VM-26), vinblastine sulfate (VLB), vincristine sulfate, hydroxyurea, procarbaxine

Index terms

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or dacarbazine).
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ADVANTAGE - The compositions provide improved delivery of compositions including drugs and genetic materials into cells. They provide for specific targeting and delivery of compounds to particular cells and increased targeting to the nuclei of targeted cells. They also allow delivery to cell lines that would be otherwise resistant to intracellular delivery and gene expression using other conventional means. DESCRIPTION OF DRAWING(S) - Schematic representation of a targeted composition.

targeted composition 1

lipid coating 2

lipids 2A

halocarbon gas or liquid 3

genetic material 4 targeting ligand 5 lipid head group 6

tether 7 tether 7A

nuclear localization sequence 8

condensing agent. 9

Dwq.2/2

L117 ANSWER 11 OF 24 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

2000137961 EMBASE

TITLE:

Microbicides: Ideas flourish, money to follow?.

AUTHOR:

Stephenson J.

SOURCE:

Journal of the American Medical Association, (12 Apr 2000)

283/14 (1811-1812).

ISSN: 0098-7484 CODEN: JAMAAP

COUNTRY:

United States Journal: Note

DOCUMENT TYPE:

Microbiology 004

FILE SEGMENT: LANGUAGE:

English

L117 ANSWER 12 OF 24 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

TITLE:

Mucoadhesive drug delivery systems: A review of current status.

AUTHOR:

Chowdary K.P.R.; Srinivas L.

CORPORATE SOURCE:

K.P.R. Chowdary, Industrial Pharmacy Division, Dept. of Pharmaceutical Sciences, Andhra University, Visakhapatnam

530 003, India

SOURCE:

Indian Drugs, (2000) 37/9 (400-406).

Refs: 94

ISSN: 0019-462X CODEN: INDRBA

COUNTRY:

India

DOCUMENT TYPE:

Journal; General Review

FILE SEGMENT:

Drug Literature Index 037

Pharmacy 039 Pharmacology 030

LANGUAGE:

English

SUMMARY LANGUAGE: English

Mucoadhesion is a topic of current interest in the design of drug delivery systems. Mucoadhesive drug delivery systems prolong the residence time of the dosage form at the site of application or absorption and facilitate an intimate contact of the dosage form with the underlying absorption surface and thus contribute to improved and/or better therapeutic performance of drugs. In recent years many such mucoadhesive drug delivery systems have been developed for oral, buccal, nasal, rectal and vaginal routes for both systemic and local effects. The principles underlying the development of

mucoadhesive drug delivery systems and the research work carried out on these systems are reviewed here.

L117 ANSWER 13 OF 24 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 1

ACCESSION NUMBER:

1999:690931 HCAPLUS

DOCUMENT NUMBER:

131:295571

TITLE:

Formulations for the prevention or the treatment of diseases affecting mucosa or skin, or for pregnancy prevention, and an applicator for the delivery of

topical formulations into mucosal cavities

Bergeron, Michel G.; Desormeaux, Andre; Omar, Rabeea F.; Juhasz, Julianna

PATENT ASSIGNEE(S):

Infectio Recherche Inc., Can.

SOURCE:

PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

INVENTOR(S):

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PA:	rent 1					DATE					CATI			DATE			
		9953	897		A:	2	1999	1028							1999	0421	<	
	WO	9953																
		W:	ΑE,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,
			DE.	DK.	EE,	ES.	FI.	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,
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			TM,	TR,	TT,	UA,	UG,	US,	UΖ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,
			MD,	RU,	ТJ,	TM												
		RW:	GH,	GM,	KE,	LS,	MW,	SD,	SL,	SZ,	UG,	ZW,	ΑT,	·BE,	CH,	CY,	DE,	DK,
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			IE,	FΙ														
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PRIO	RIT:	APP	LN.	INFO	.:				(CA 1	998-	2235	427	Α	1998	0421		
									(CA 1	998-	2257	001	Α	1998	1223		
									1	WO 1	999-	CA35	9	W	1999	0421		
7.17									٠.		4-4-		a /	aha		1	- A - L - L	

Formulations for the prevention of infection and/or abnormal conditions of AB mucosa and/or skin caused by any pathogen and/or any disease, and more particularly for the prevention of sexually transmitted infections specially HIV and HSV. This invention also relates to formulations for the treatment of infection and/or abnormal conditions of skin and/or mucosa and more particularly for the treatment of herpetic lesions. formulations could be used as a prophylactic agent to prevent accidental infection of health care workers. The formulations could be used for the healing and/or treatment of burn wounds and prevention of further infection. This invention also relates to the development of a unique vaginal/ano-rectal applicator for the uniform delivery of any topical formulations to treat and/or prevent any infection and/or abnormal conditions of mucosa cavity caused by any pathogen and/or disease. Pretreatment of HSV-1 and HSV-2 with sodium lauryl sulfate (I) for 1 h at 37.degree. decreased their infectivity on Vero cells. HSV-1 and HSV-2 infectivity was reduced to 21, and 50-70% when viral particles were

pretreated with 25 .mu.M I. A complete loss of infectivity of all strains tested were obtained following pretreatment to viruses with 50 .mu.M I. The gel formulation comprise I 1-15 and Poloxamer 407 10-35%.

L117 ANSWER 14 OF 24 WPIDS (C) 2002 THOMSON DERWENT

ACCESSION NUMBER:

1999-494206 [41] WPIDS

DOC. NO. CPI:

C1999-144822

TITLE:

Pharmaceutical compositions for oral, transmucosal, parenteral and topical delivery of active agents and to

improve biopharmaceutical properties of actives.

DERWENT CLASS:

A96 B04 B05 B07

INVENTOR(S):

CARLI, F; COCEANI, N; COLOMBO, I; DEL CURTO, M D;

ESPOSITO, P

PATENT ASSIGNEE(S):

(VECT-N) VECTORPHARMA SPA; (EURA-N) EURAND INT SPA;

(VECT-N) VECTORPHARMA INT SPA

COUNTRY COUNT:

PATENT INFORMATION:

PATENT NO	KIND DATE	WEEK	LA PG
		- 	

WO 9939700 A1 19990812 (199941)* EN 73

RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW

AU 9927238 A 19990823 (200005)

EP 1051160 A1 20001115 (200059) EN

R: AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

BR 9907683 A 20001114 (200064)

KR 2001040726 A 20010515 (200167)

IT 1298575 B 20000112 (200175)

JP 2002502813 W 20020129 (200211) 70

AU 747129 B 20020509 (200238)

APPLICATION DETAILS:

PATENT NO K			IND	API	PLICATION	DATE	
		· -					
	WO	9939700	A1	WO	1999-EP782	19990205	
	ΑU	9927238	A	ΑU	1999-27238	19990205	
	ΕP	1051160	A1	ΕP	1999-907510	19990205	
				WO	1999-EP782	19990205	
	BR	9907683	A	BR	1999-7683	19990205	
				WO	1999-EP782	19990205	
	KR	2001040726	A	KR	2000-708610	20000805	
	IT	1298575	В	IT	1998-MI234	19980206	
	JP	2002502813	W	WO	1999-EP782	19990205	
				JP	2000-530200	19990205	
	AU	747129	В	ΑU	1999-27238	19990205	

FILING DETAILS:

PAT	TENT NO	KIND			PA	TENT NO	
AIJ	9927238	- -	Based	on	WO	9939700	
	1051160		Based		WO	9939700	
BR	9907683	Α	Based	on	WO	9939700	
ιTΡ	200250281	3 W	Based	on	WO	9939700	

AU 747129 B Previous Publ. AU 9927238 Based on WO 9939700

PRIORITY APPLN. INFO: IT 1998-MI234 19980206

AN 1999-494206 [41] WPIDS

AB WO 9939700 A UPAB: 19991011

NOVELTY - Pharmaceutical compositions in form of solid nanoparticles comprise composite material comprising:

- (a) at least one lipoid substance;
- (b) at least one amphiphilic substance; and
- (c) hydrosoluble, liposoluble or poorly soluble pharmaceutical active.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for the preparation of the compositions.

USE - For oral and transmucosal delivery of active agents including polypeptides and proteins not usually absorbable by this route, for oral and/or parenteral delivery of lipophilic highly insoluble and poorly absorbable molecules including cyclosporin, leuprolide, taxol and its derivatives, etoposide, acyclovir or ganciclovir. Used to improve biopharmaceutical properties of active principles including for controlled or prolonged release and to increase plasmatic half-lives. Used to topically deliver molecules active at the mucosal or dermal level e.g. antivirals, anti-micotics and anti-psoriatics. Used to encapsulate active ingredients with unpleasant flavor, administrable in immediate-release formulations. Used to deliver non-steroidal anti-inflammatory drugs (NSAIDs), steroidal anti-inflammatory drugs (SAIDs), estrogenic or progestational hormones, cardiovascular, antivirals, anti-micotics, antineoplastics, hypolipidemics, peptides, proteins, ergot alkaloids and derivatives (dihydroergotamine, didehydroergotoxine, bromocriptine), analgesics and NSAIDs and their salts (diclofenac sodium, diclofenac hydroxyethil pyrrolidone, diclofenac diethylamine, ibuprofen, flurbiprofen, ketoprofen, indomethacin, mefenamic acid, naproxen, nimesulide, piroxicam), antiarrhythmics (amiodarone, diisopyramide, propranolol, verapamil), antibacterials (amoxicillin, flucloxacillin, gentamicin, rifampicin, erythromycin, cephalosporins), antifungals, and antipsoriatics (amphotericin, butoconazole nitrate, ketoconazole, econazole, etretinate, fluconazole, flucytosine, griseofulvin, itraconazole, miconazole, nystatin, sulconazole, tioconazole), antivirals (acyclovir, ganciclovir, AZT, protease inhibitors), antihypertensives (amlodipine, clonidine, diltiazem, felodipine, guanabenz acetate, isradipine, minoxidil, nicardipine hydrochloride, nimodipine, nifedipine, prazosin hydrochloride, papaverine), antidepressants (carbamazepine), antihistaminics (diphenhydramine, chlorpheniramine, pyrilamine, chlorcyclizine, promethazine, acrivastine, cinnarizine, loratadine, terfenadine), antineoplastics and immunosuppressants (cyclosporin, dacarbazine, etretinate, etoposide, lomustine, melphalan, mitomycin, mitoxantrone, paclitaxel, procarbazine, tamoxifen, taxol and derivatives, taxotere), anxiolytics, sedatives and hypnotics (alprazolam, bromazepam, diazepam, lorazepam, oxazepam, temazepam, sulpiride, triazolam), beta blockers (alprenolol, atenolol, oxprenolol, pindolol, propranolol), beta agonists (salbutamol, salmeterol), cardiac and cardiovascular inotropics (amrinone, digitoxin, digoxin, lanatoside C, medigoxin, ubidecarenone), corticosteroids (beclomethasone, betamethasone, budesonide, cortisone acetate, desoximethasone, dexamethasone, fludrocortisone acetate, flunisolide, hydrocortisone, methylprednisolone, methylprednisone, triamcinolone), gastrointestinals and anti H2 histaminics (cimetidine, cisapride, domperidone, famotidine, loperamide, mesalazine, omeprazole, ondansetron hydrochloride, ranitidine), hypolipidemics (claimed) (bezafibrate, clofibrate, gemfibrozil, probucol, lovastatin),

anti-anginals (amyl nitrate, glyceryl trinitrate, isosorbide dinitrate and mononitrate and pentaerythritol tetranitrate), central acting drugs (nicotine), vitaminic and nutritional agents (vitamins A, B2, D and derivatives, E and derivatives, and K), opioid analgesics (codeine, dextropropoxyphene, dihydrocodeine, morphine, pentazocine, methadone), sexual hormones (danazol, ethinyl estradiol, medroxyprogesterone acetate, methyltestosterone, testosterone, norethisterone, norgestrel, estradiol, estriol, progesterone, stilbestrol, diethylstilbestrol), peptidic, proteic and polysaccharidic molecules (leuprolide and LH-RH analogs, calcitonin, glutathione, somatostatin, GH, desmopressin DDAVP, interferon, molgramostin, EGF, NGF, insulin, glucagon, toxins or toxoides (tetanus toxin), antigenic factors of proteic or polysaccharidic kind, heparin, low-molecular weight heparin or heparinoids) and molecules with specific topical activity e.g. sun protectors (UV absorbers), skin nutrients, ceramides, and glycolic acid.

ADVANTAGE - Surface and mass properties of composite materials allow improved incorporation of active ingredients and increased bioavailability of poorly absorbable active ingredients. Have properties not achieved by usual mixing of lipidic and amphiphilic substances. Assist oral administration absorption and half-life time in circulatory system, allow incorporation of thermolabile drugs, are suitable for vehiculation of both liposoluble and hydrosoluble drugs, and are able to homogeneously incorporate hydrophilic drugs (e.g. peptides) inside an essentially lipophilic matrix. It is possible to have vector systems (comprising nanoparticles) originated exclusively by physical changes of component substances, thus not requiring long toxicological experimental tests.

Calcitonin marked by a fluorophor (7-nitrobenz-2-oxa-1,3-diazol) was incorporated into test nanoparticles (2: 99.0% stearic acid and 1.0% DMPG; 5: 91.5% stearic acid and 9.5% DMPG) and comparative nanoparticles (B: stearic acid 100%; C: stearic acid 90% and DMPG 10%) washed by ultrafiltration. The percentage of peptide superficially adsorbed with respect to the incorporated total was determined by measuring the fluorescence before and after treatment of the suspensions with proteolytic enzyme trypsin, which was able to dissolve and degrade only the peptide fraction adsorbed to the surface of the particles. Percentages were calculated by measuring the emission values in fluorescence with respect to a standard curve and with respect to 100% of fluorescence emitted before ultrafiltration. The incorporation efficiency (%) and adsorbed peptide (%) were as follows: (2) 10.2 and 0.11; (5) 9.19 and 0.49; (B) 1.82 and 0.93 and (C) 1.75 and 0.95. The results showed that the test composite nanoparticles increased the incorporation efficiency of the peptide, decreasing its superficially located fraction and maintaining the majority inside the composite matrix. Dwg.0/11

L117 ANSWER 15 OF 24 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:719477 HCAPLUS

DOCUMENT NUMBER: 123:93396

TITLE: Condom coated with acidic polysaccharides for

prevention of AIDS

INVENTOR(S): Enomoto, Yutaka; Fujii, Masahiko; Furusho, Takao;

Yamamoto, Naoki

PATENT ASSIGNEE(S): Fuji Latex Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

APPLICATION NO. DATE PATENT NO. KIND DATE _____ _____ ----------EP 661028 A1 19950705 EP 1994-120270 19941221 R: DE, ES, FR, GB, IT JP 07194640 A2 19950801 JP 1993-352000 19931228 JP 1993-352000 19931228 PRIORITY APPLN. INFO.: A condom prophylactic against AIDS infection is coated with acidic polysaccharides having an antiviral action. The acidic polysaccharides are e.g. protein-bound saccharides and glycolipids extd. from seaweeds, Procaryomycota, and Eucaryomycota, carrageenan, etc. which bear acidic groups such as sulfate groups. A condom is coated with a soln. of said acidic polysaccharides by dipping. L117 ANSWER 16 OF 24 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V. ACCESSION NUMBER: 95097338 EMBASE 1995097338 DOCUMENT NUMBER:

TITLE:

Stabilization of human epidermal growth factor (hEGF) in

aqueous formulation.

AUTHOR:

Son K.; Kwon C.

CORPORATE SOURCE:

The State University of New Jersey, Department of

Pharmaceutics, School of Pharmacy, P.O. Box 789, Piscataway,

NJ 08855-0789, United States

SOURCE:

Pharmaceutical Research, (1995) 12/3 (451-454).

ISSN: 0724-8741 CODEN: PHREEB

COUNTRY:

United States Journal; Article

DOCUMENT TYPE: FILE SEGMENT:

037 Drug Literature Index

LANGUAGE:

English

L117 ANSWER 17 OF 24 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1994:549053 HCAPLUS

DOCUMENT NUMBER:

121:149053

TITLE:

Use of sulfated polysaccharides for preventing

sexually transmitted diseases

INVENTOR(S):

Phillips, David M.; Bardin, Clyde Wayne; Pearce-Pratt,

Rachel; Tan, Xin; Zacharopoulos, Vanaja

PATENT ASSIGNEE(S):

SOURCE:

Population Council, USA

PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	PATENT NO.			KIND DATE			APPLICATION NO.				DATE						
WO	9415624	- 	A:	- - L	 1994	 0721		W	19	94 - US	5210		1994	0106	L	ne sa addresi.	
	W: JP RW: AT,	BE,													PT,	SE	
	678030 R: AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IE,	IT,	LI,		MC,	NL,	PT,	SE
	08506570 APPLN. I	NFO.		2	1996	0716	1	US 1	993-	94-51 1795			1994	0108			
										17379 US210	-		1993: 1994:				

AB Cell-to-cell transmission of HIV, and thus the sexual transmission of AIDS, is inhibited by the direct application of sulfated polysaccharides to the epithelium of the vaginal mucosa, cervix, or penis. Sulfated polysaccharides include carrageenan and dextran sulfate, which may be formulated into a cream, suppository, gel or foam compns. Carrageenan I

at 2.5-5 mg/mL inhibited the adhesion of HIV-infected lymphocytes to epithelial cells.

L117 ANSWER 18 OF 24 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

94335260 EMBASE

DOCUMENT NUMBER:

1994335260

TITLE:

Stability of rhbFGF as determined by UV spectroscopic

measurements of turbidity.

AUTHOR:

SOURCE:

Eberlein G.A.; Stratton P.R.; Wang Y.J.

CORPORATE SOURCE:

1430 O'Brien Drive, Menlo Park, CA 94025, United States PDA Journal of Pharmaceutical Science and Technology,

(1994) 48/5 (224-230).

ISSN: 1076-397X CODEN: JPHTEU

COUNTRY:

United States

DOCUMENT TYPE:

Journal; Article

FILE SEGMENT:

Clinical Biochemistry 029

030 Pharmacology

037 Drug Literature Index

LANGUAGE:

English English

SUMMARY LANGUAGE:

Loss of potency of a protein formulation due to precipitation of the protein is a major concern to the pharmaceutical scientist. A simple screening method was developed to study the effect of excipients on protein precipitation. It will not provide accurate stability data but it allows the rejection of excipients that may interfere with the stability of a protein formulation. The method is based on measuring the increase in turbidity at 277 nm by UV-spectroscopy and was sensitive and reproducible enough to obtain data within 15 hr at 30.degree.C or 40.degree.C, which will allow prediction of precipitation behavior that would need with conventional methods 2-3 years. Human recombinant basic fibroblast growth factor (rhbFGF or bFGF) was formulated at various pH-values as well as in the presence of various concentrations of preservatives, surfactants, gelling agent, EDTA, NaCl, sodium sulfate, sucrose, and glycosaminoglycans (GAG). Most excipients increased bFGF aggregation rate when their concentrations were increased. Exceptions were heparin and some of its derivatives, and sodium sulfate: high concentrations of sucrose and sodium chloride suppressed aggregation.

L117 ANSWER 19 OF 24 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

95116653 EMBASE

DOCUMENT NUMBER:

1995116653

TITLE:

Bioadhesion technologies for the delivery of peptide and

protein drugs to the gastrointestinal tract.

AUTHOR:

Lehr C.-M.

CORPORATE SOURCE:

Department of Biopharmaceutics, Universitat des

Saarlandes, D-66041 Saarbrucken, Germany

SOURCE:

Critical Reviews in Therapeutic Drug Carrier Systems,

(1994) 11/2-3 (119-160).

ISSN: 0743-4863 CODEN: CRTSEO

COUNTRY:

United States

DOCUMENT TYPE:

Journal; General Review

FILE SEGMENT:

Biophysics, Bioengineering and Medical 027

Instrumentation

030

Pharmacology

Drug Literature Index 037 English

LANGUAGE:

English

SUMMARY LANGUAGE: For the efficient delivery of peptides, proteins, and other biopharmaceuticals by nonparenteral routes, in particular via the gastrointestinal, or GI, tract, novel concepts are needed to overcome

significant enzymatic and diffusional barriers. In this context, bioadhesion technologies offer some new perspectives. The original idea of oral bioadhesive drug delivery systems was to prolong and/or to intensify the contact between controlled-release dosage forms and the stomach or gut mucosa. However, the results obtained during the past decade using existing pharmaceutical polymers for such purposes were rather disappointing. The encountered difficulties were mainly related to the physiological peculiarities of GI mucus. Nevertheless, research in this area has also shed new light on the potential of mucoadhesive polymers. First, one important class of mucoadhesive polymers, poly(acrylic acid), could be identified as a potent inhibitor of proteolytic enzymes. Second, there is increasing evidence that the interaction between various types of bio(muco)adhesive polymers and epithelial cells has direct influence on the permeability of mucosal epithelia. Rather than being just adhesives, mucoadhesive polymers may therefore be considered as a novel class of multifunctional macromolecules with a number of desirable properties for their use as biologically active drug delivery adjuvants. To overcome the problems related to GI mucus and to allow longer lasting fixation within the GI lumen, bioadhesion probably may be better achieved using specific bioadhesive molecules. Ideally, these bind to surface structures of the epithelial cells themselves rather than to mucus by receptor-ligand like. interactions. Such compounds possibly can be found in the future among plant lectins, novel synthetic polymers, and bacterial or vital adhesion/invasion factors. Apart from the plain fixation of drug carriers within the GI lumen, direct bloadhesive contact to the apical cell membrane possibly can be used to induce active transport processes by membrane-derived vesicles (endo- and transcytosis). The nonspecific interaction between epithelia and some mucoadhesive polymers induces a temporary loosening of the tight intercellular junctions, which is suitable for the rapid absorption of smaller peptide drugs along the paracellular pathway. In contrast, specific endo- and transcytosis may ultimately allow the selectively enhanced transport of very large bioactive molecules (polypeptides, polysaccharides, or polynucleotides) or drug carriers across tight clusters of polarized epi- or endothelial cells, whereas the formidable harrier function of such tissues against all other solutes remains intact.

L117 ANSWER 20 OF 24 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 94221114 EMBASE

DOCUMENT NUMBER: 1994221114

TITLE: Identification of a mucin layer in the urinary bladder.

AUTHOR: Grist M.; Chakraborty J.

CORPORATE SOURCE: Department of Physiology/Biophysics, Medical College of

Ohio, Toledo, OH 43699-0008, United States

SOURCE: Urology, (1994) 44/1 (26-32).

ISSN: 0090-4295 CODEN: URGYAZ

COUNTRY: United States
DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 005 General Pathology and Pathological Anatomy

028 Urology and Nephrology

LANGUAGE: English SUMMARY LANGUAGE: English

AB Objectives. The specific goal of this study was to establish a simple histochemical technique by which the glycosaminoglycan (GAG) lining in the rabbit bladder can be routinely identified. Methods. Rabbit bladder tissues were fixed in zinc formal, 10% neutral buffered formalin (NBF), 20% NBF, 40% NBF, 2% calcium acetate in 10% NBF, 2% sodium acetate in 10% NBF, 1% cetylpyridinium chloride in 10% NBF, 80% alcohol, histochoice, and 2.5% glutaraldehyde in 0.1 M cacodylate buffer. The following histochemical staining was used: mucicarmine/metanil yellow, colloidal

iron, deamination followed by colloidal iron, periodic acid-Schiff, saponification followed by colloidal iron, Alcian blue (AB) at variable pH values, combined aldehyde- fuchsin/AB, performic acid/AB, AB/Alcian yellow, high temperature (60.degree.C) methylation/saponification/AB, and AB/nuclear fast red at pH 5.8 with critical electrolyte concentrations with or without deamination. Results. AB with sodium acetate buffer at pH 5.8 containing 0.6 M or 0.8 M magnesium chloride (MgCl2) showed a well-defined thin GAG lining on the surface of the urothelium, whereas histochemical staining used by previous investigators showed only patchy distribution. There was no observable difference due to the gender, fixative, or region of the bladder from which the tissue was obtained. Conclusions. A very thin lining of GAG exists in the rabbit bladder which can be localized by AB in sodium acetate buffer at pH 5.8 containing 0.6 M or 0.8 M MgCl2 but not by conventional histochemical techniques. This method now can be applied to answer many questions regarding urothelial function.

L117 ANSWER 21 OF 24 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

93302866 EMBASE

1993302866

DOCUMENT NUMBER: TITLE:

Treatment of diseases of the eye with mucoadhesive delivery

systems.

AUTHOR:

Greaves J.L.; Wilson C.G.

CORPORATE SOURCE:

Division of Addictive Behaviour, St. George's Hospital Medical School, Cranmer Terrace, Tooting, London SW17 ORE,

United Kingdom

SOURCE:

Advanced Drug Delivery Reviews, (1993) 11/3 (349-383).

ISSN: 0169-409X CODEN: ADDREP

COUNTRY:

Netherlands

DOCUMENT TYPE:

Journal; General Review

FILE SEGMENT:

OO1 Anatomy, Anthropology, Embryology and Histology

002 Physiology

023 Nuclear Medicine

027 Biophysics, Bioengineering and Medical

Instrumentation

037 Drug Literature Index

012 Ophthalmology 030 Pharmacology

LANGUAGE:

English English

SUMMARY LANGUAGE: En

L117 ANSWER 22 OF 24 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER:

93302862 EMBASE

DOCUMENT NUMBER:

1993302862

TITLE:

Drug delivery using buccal-adhesive systems.

AUTHOR:

Smart J.D.

CORPORATE SOURCE:

Drug delivery Research Unit, School Pharmacy/Biomedical Sciences, University of Portsmouth, Park Bldg., King Henry

I Street, Portsmouth PO1 2DZ, United Kingdom

SOURCE:

Advanced Drug Delivery Reviews, (1993) 11/3 (253-270).

ISSN: 0169-409X CODEN: ADDREP

COUNTRY:

Netherlands

DOCUMENT TYPE:

Journal; General Review

FILE SEGMENT:

002 Physiology

027

027 Biophysics, Bioengineering and Medical

Instrumentation
Gastroenterology

030 Pharmacology

037 Drug Literature Index

LANGUAGE:

English -

048

SUMMARY LANGUAGE: English

The buccal mucosa has been investigated for local drug therapy and the systemic delivery of therapeutic peptides and other drugs that are subjected to first-pass metabolism or are unstable within the rest of the gastrointestinal tract. The mucosa of the oral cavity presents a formidable barrier to drug penetration, and one method of optimising drug delivery is by the use of adhesive dosage forms. Mucosal-adhesive materials are hydrophilic macromolecules containing numerous hydrogen-bond-forming groups. They have been called 'wet' adhesives in that they require moisture to become adhesive and this may be supplied by the saliva; the latter may also act as the dissolution medium. Various buccal-adhesive formulations have been investigated with a view to delivering drugs locally or systemically. If the buccal route is to be used for the systemic delivery of large macromolecules, then a penetration enhancer incorporated into an adhesive dosage form may be a possible approach.

L117 ANSWER 23 OF 24 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1992:143835 HCAPLUS

DOCUMENT NUMBER: 116:143835

TITLE: Prevention of viral diseases with polysaccharide

sulfates

INVENTOR(S):
Diringer, Heino; Ehlers, Bernhardt; Schrinner, Elmar;

Winkler, Irvin

PATENT ASSIGNEE(S): Hoechst A.-G., Germany SOURCE: Eur. Pat. Appl., 7 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO. D	ATE
EP 464759	A2	19920108	EP 1991-110901 1	9910701
EP 464759	A3	19920603		
R: AT, BE,	CH, DE	, DK, ES, F	R, GB, GR, IT, LI, LU, I	NL, SE
DE 4021066	A1	19920109	DE 1990-4021066 1	9900703
CA 2046037	AA	19920104	CA 1991-2046037 1	9910702
AU 9179470	A1	19920109	AU 1991-79470 1	9910702
JP 04230325	A2	19920819	JP 1991-161381 1	9910702
PRIORITY APPLN. INFO.	. :		DE 1990-4021066 1	9900703

AB Polysaccharide sulfates prevent the development of viral diseases, such as AIDS, Jacob-Creutzfeldt syndrome and scrapie. I.p. administration of 10 mg pentosan polysulfate prior to inoculation with scrapie virus, prolonged the survival of mice.

L117 ANSWER 24 OF 24 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 89117724 EMBASE

DOCUMENT NUMBER: 1989117724

TITLE: Evaluation of muco-adhesive properties and in vivo activity

of ophthalmic vehicles based on hyaluronic acid.

AUTHOR: Saettone M.F.; Chetoni P.; Torracca M.T.; Burgalassi S.;

Giannaccini B.

CORPORATE SOURCE: Laboratorio di Technologie Farmaceutiche-Biofarmacia,

Universita di Pisa, 56100 Pisa, Italy

SOURCE: International Journal of Pharmaceutics, (1989) 51/3

(203-212).

ISSN: 0378-5173 CODEN: IJPHDE

COUNTRY: Netherlands

DOCUMENT TYPE:

Journal

FILE SEGMENT:

012 Ophthalmology
030 Pharmacology

037 Drug Literature Index

LANGUAGE:

English

SUMMARY LANGUAGE:

English

As series of prospective ophthalmic vehicles based on hyaluronic acid (HA) and on polyacrylic acid (PAA) (solutions, gels, matrices prepared by compression and by casting) containing pilocarpine (Pi) or tropicamide (Tr) was evaluated for muco-adhesion, for ocular retention and for biological activity (miosis, mydriasis) in rabbits. The muco-adhesive properties were investigated in vitro using a tensile apparatus with mucin-coated surfaces, while the ocular behviour was estimated visually, using vehicles containing a fluorescent marker. Good to excellent muco-adhesive properties were detected in the HA preparations. The bioavailability-enhancing effect, however, was not very satisfactory with Pi, probably on account of the high solubility and diffusivity of the drug. The effect was more evident with the less soluble drug Tr. The validity of the method used for evaluating bioadhesion, and the relevance of the physicochemical characteristics of the drug to a muco-adhesive ocular delivery system are discussed.